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OCCASIONAL PAPERS

OF THE

BERNICE PAUAAHI BISHOP MUSEUM OF POLYNESIAN ETHNOLOGY AND NATURAL HISTORY.

VOL. I.—No. 5.

Director's Report for 1901.

HONOLULU, H. I.
BISHOP MUSEUM PRESS.
1902.



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ALVIN SEALE	Collector.
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To the President and Trustees of the Bernice Pauahi Bishop Museum.

Sirs:—In accordance with the vote of the Trustees at the stated meeting held January 13, 1900, I present my report of the condition of the Museum and the work done in the various departments during the year 1901.

WILLIAM T. BRIGHAM,

Director of the Museum.

Honolulu, March 19, 1902.

REPORT.

THE difficulty mentioned in my last Annual Report, relating to the absence of sufficient case room, has continued through the year, but it is hoped that a few months more will put an end to a condition seriously impeding the progress of the Museum. No new collections of great importance have been received during the year, although single specimens have come in by gift and some important ones by purchase; among the latter the fine specimen of Sperm Whale (*Physeter macrocephalus*) which was ordered by the Trustees some two years ago. It was then considered that as Honolulu owed much of its early prosperity to the whaling industry which at one time made this port the centre of its operations in the Pacific it would be desirable to have specimens of the seven or more species of whale formerly caught in these waters. As a beginning, the Wards Natural Science Establishment at Rochester, N. Y., was commissioned to procure as fine a skeleton of a sperm whale as possible, and to not only mount this carefully as a skeleton, but following the suggestion of the late Sir William H. Flower of the South Kensington Museum, prepare a covering of suitable material to represent the actual appearance of the living whale so far as possible. As this covering extends over only a longitudinal half, inspection of the bony structure is in no wise hindered; and as the whale is now hung in Hawaiian Hall about on a level with the upper gallery it is in a very favorable position for examination. The specimen is a full grown male 55.7 feet long. The skull alone is 18 feet long, 8 feet wide and 6 feet high, weighing 6000 pounds. The lower jaw, which contains 50 teeth, weighs only 900 pounds. The framing of the skeleton is very skilfully done, two strong steel rods.

piercing the body of the vertebrae and holding the spine in rigid curvature. It is believed that there is no better or more instructive specimen in the United States. Illustrations both of the skeleton and of its covering are herewith given. Figs. 1, 2 and 3. It is hoped that soon a similar specimen of the Right Whale may be placed on the opposite side of the Hall.

Also by purchase a skeleton of a smaller whale, 17.6 feet long, from New Zealand (*Mesoplodon grayi*) has been obtained and well cleaned and mounted by Mr. Bryan of the Museum staff. It is well shown in the accompanying illustrations, Figs. 4-8, and as it is not a common specimen, the skull has been photographed as well as the ear bones. It presents features in common with the description of another species of *Mesoplodon* and in the absence of material for comparison the determination of its specific place is not certain.

As far as possible in the absence of cases the work of preparing the bird groups has gone on, and a fair illustration of one of the larger groups is given in Fig. 9, where Mr. Bryan has, as it were, taken a section of the rocky breeding place of the Tropic bird. Eggs, young and adults are all skilfully shown, and our thanks are due to Mr. F. M. Swanzy for permission to secure the needed specimens from the islet Mokolii. For the smaller birds a different but not less effective treatment is shown in Fig. 10. This is certainly much more attractive and truer to Nature than the old method of mounting stiffly on stands. Twenty-seven such groups are planned for the Hawaiian avifauna.

The grass house mentioned in my last report has been completed and furnishes a very satisfactory illustration of an ancient grass house of the simpler sort. It will be fully described and illustrated in the account of Hawaiian house building which it is proposed to publish in the Museum Memoirs. It may be said here, however, that it is large enough to live in, and not a mere model, and it has been constructed in the ancient way, except that the human sacrifice was not deemed necessary, from the frame of an old house in a valley on Kauai, and this was given by the Knudsen

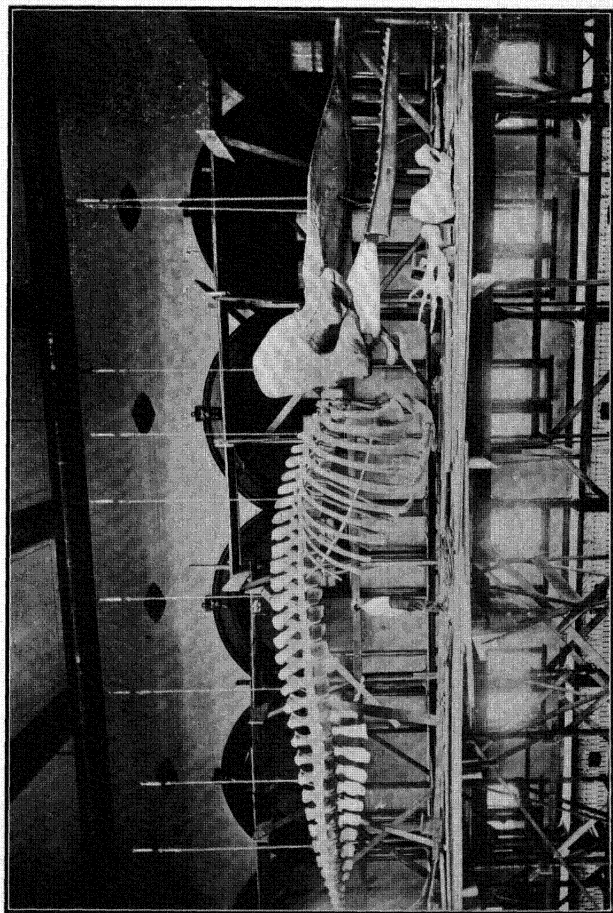


FIG. 1. SKELETON OF *PHYSETER MACROCEPHALUS*.

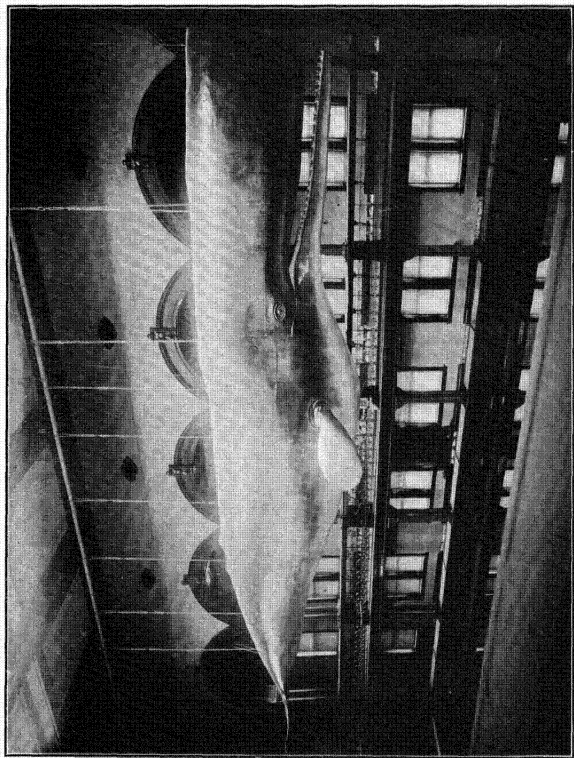


FIG. 2. *PHYSETER MACROCEPHALUS* AS HUNG IN HAWAIIAN HALL.

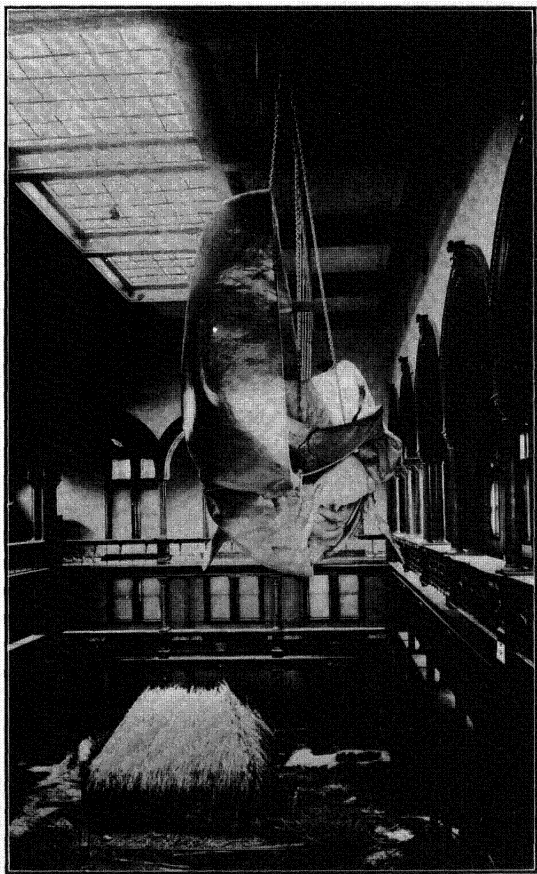


FIG. 3. END VIEW OF SPERM WHALE.



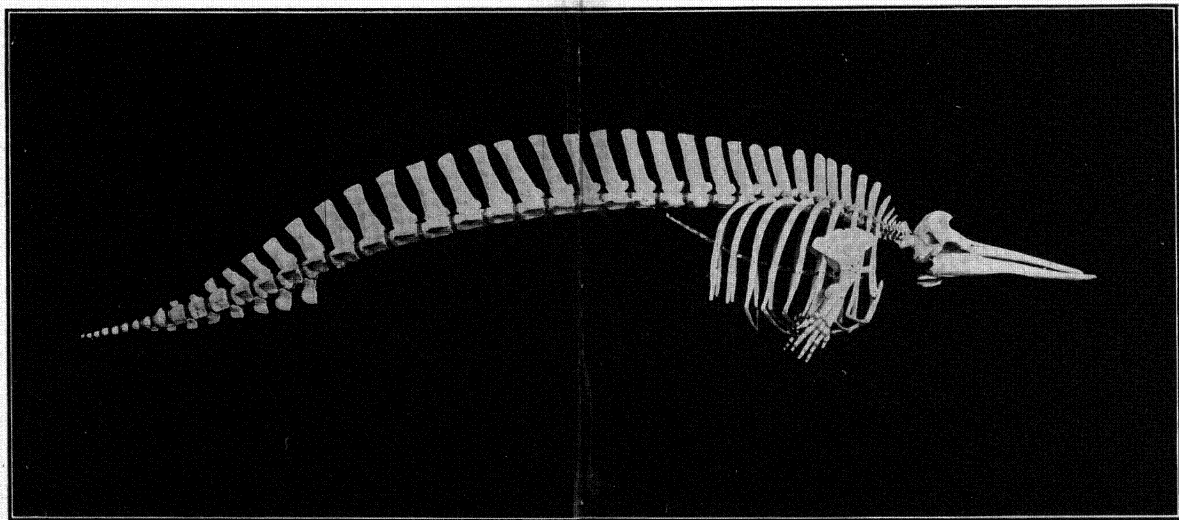


FIG. 4. MESOPLODON GRAYI.

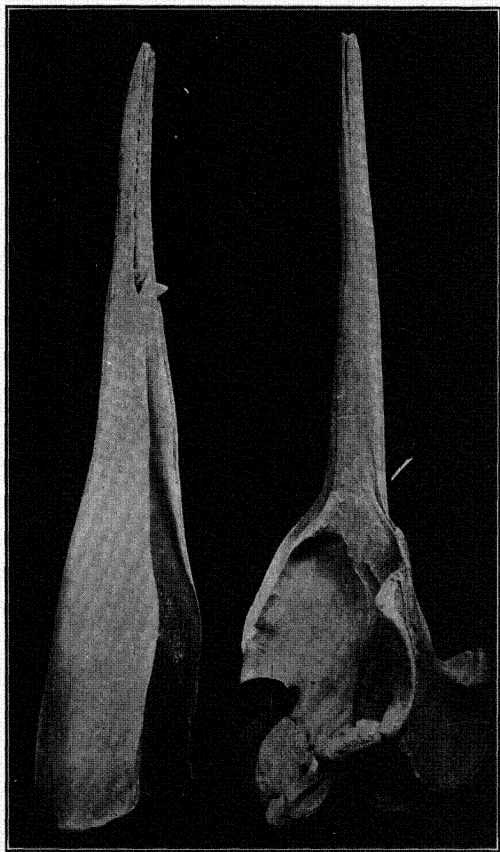


FIG. 5. SKULL OF MESOPLONDON (SIDE VIEW).

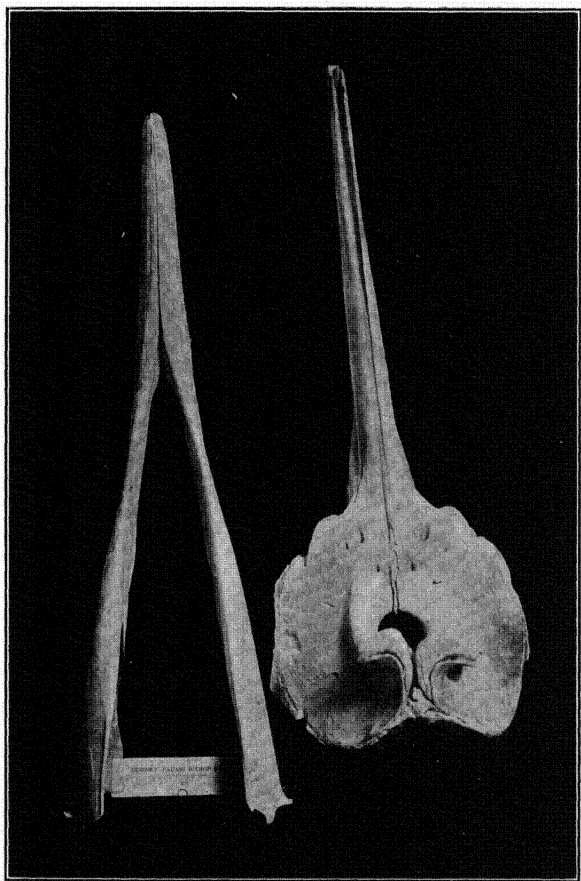


FIG. 6. SKULL OF MESOPLONDON (FROM BELOW).

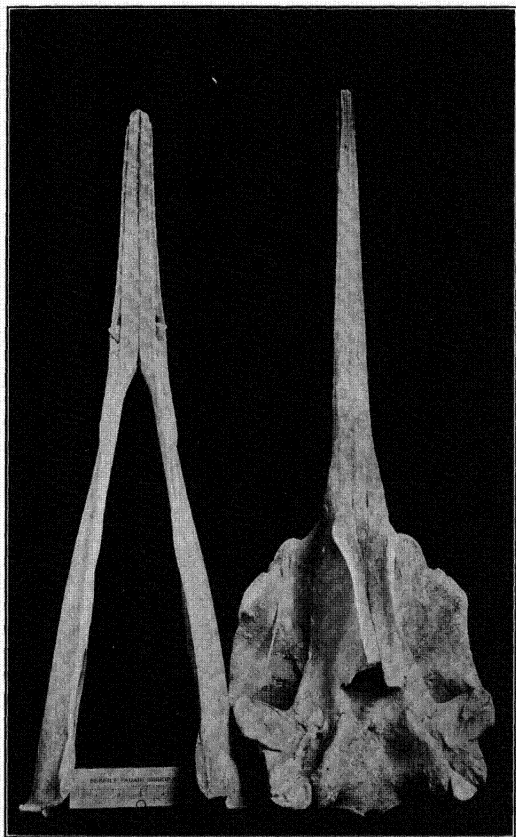


FIG. 7. SKULL OF MESOPLODON (FROM ABOVE).

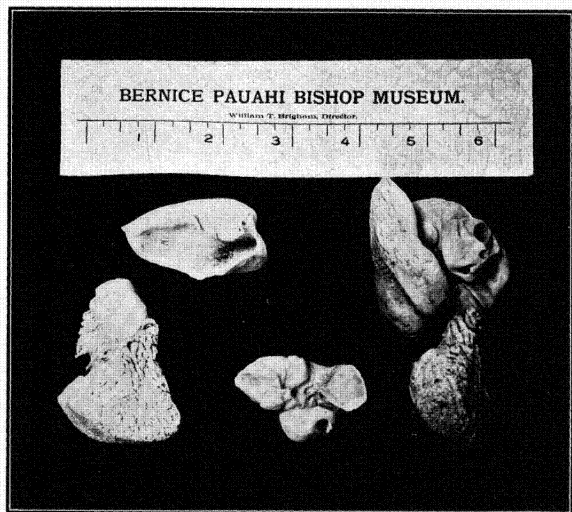


FIG. 8. EAR BONES OF MESOPLODON.

Estate. This frame was cut by stone tools from the hardest and most durable of Hawaiian woods, as *naio* and *kauila* and *uhiuhi*, so that while the ends buried in the earth show signs of decay the part exposed to the air is fresh and complete as when made so many score of years ago. The frame has been bound together by braid of *ukiuki* leaves and the thatch of *bili* grass attached by the same means.

Mr. Stokes has, during the year, nearly completed his admirable model of the Wahaula heiau which is to be exhibited in Hawaiian Hall. As this ancient temple was the last one actually used in the former worship, and is in a situation remote from the present population, and unsuited to the cultivation of sugar cane, it has been possible to secure most of the original construction, or rather (as it was rebuilt several times by chiefs of Hawaii) of the construction last used for worship. Mr. Stokes and the Director spent some time camping in the heiau making careful measurements and photographs, from which Mr. Stokes has built with the very stones of the temple, what I consider a very accurate representation of an ancient heiau. Mr. Bryan has added with great skill a miniature grove of coconut trees.

Mr. Walcott has completed the great task of rewriting the accession book, comparing each specimen with the description and number in the most painstaking manner. He has also arranged the very extensive card index of contemporary zoölogical literature of the Concilio Bibliographico of Zurich.

Mr. Thompson has made many casts of the Hawaiian fishes, and already the collection stored in Hawaiian Hall is a most interesting and beautiful illustration of the Hawaiian fish fauna; one that we should hope to complete. Mr. Thompson's work received the emphatic approval of the gentlemen of the United States Fish Commission, and I doubt if so good representations of fish can be found in any museum. Few persons can have a just idea of the variety and beauty of the Hawaiian fish as shown in this work. The necessary removal and partial demolition by storm of Mr.

Thompson's workshop has caused considerable loss of casts and no little delay in his work.

During the year the Museum Printing Office has been constantly employed, and the typographical beauty of the publications attests the skill and industry of our one printer. Bryan's Key to the Hawaiian Birds has been issued as Memoir No. 3, and besides the Annual Report, a description of new Hawaiian Fishes by Mr. Seale as No. 4 of the Occasional Papers. Memoir No. 4, on Hawaiian Stone Implements, is more than half printed and will be issued in the first half of 1902. The demand for the publications has increased in a gratifying manner.

Late in the year Mr. Seale started on his second expedition, this time to the southeastern Pacific. He has already spent a month on Makatea, of the Paumotu archipelago, where he made photographs and notes of the process of kapa-making, as this island was once the centre of the kapa industry in the Paumotus, but now has quite given up the interesting manufacture, although Mr. Seale found skilled old women who made kapa for him. Evidently it will not be long before, the old women gathered to their fathers, the art will be lost. A considerable collection of fish was made in Tahiti, and from that island our explorer will proceed to the Tubuai, Gambier, Hervey, Marquesas, Samoan groups, whence we are looking for abundant treasures on his return.

In the Ethnological department the acquisitions are fully shown in the list appended. In the other departments of Natural History the gentlemen in charge have prepared similar lists.

REPORT ON THE LIBRARY.

TO THE DIRECTOR:—

During the year 1901 the library of the Museum has been increased by the addition of 299 volumes and 530 parts and pamphlets acquired principally by exchange of publications, also by gift and purchase.

Since the foundation of this library efforts have been made to secure all the available material relating to the early voyages in

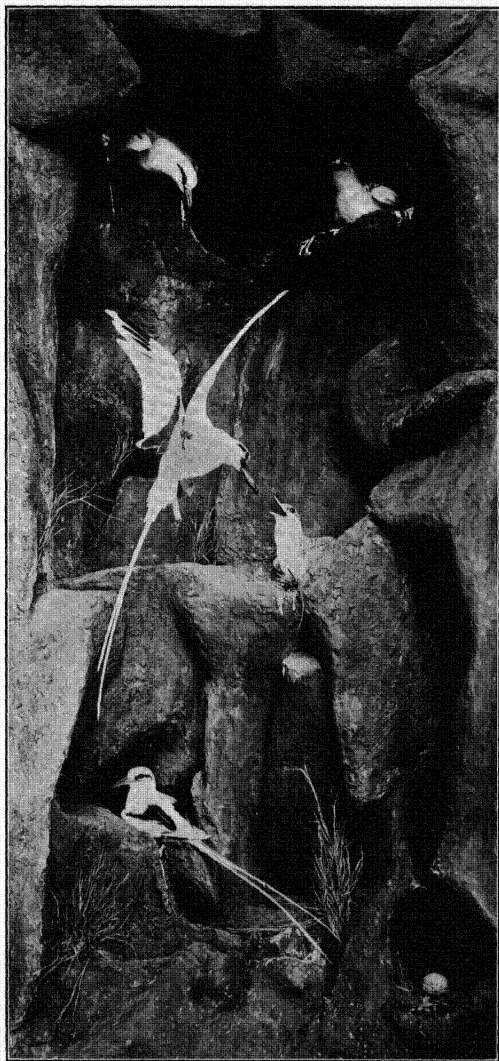


FIG. 9. GROUP OF TROPIC BIRDS.

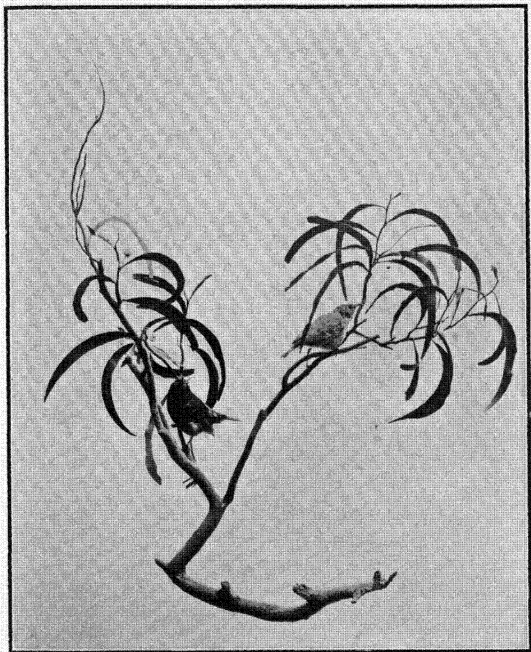


FIG. 10. BIRDS ON KOA BRANCH.

the Pacific ocean, and by closely watching the catalogues of the book dealers in Europe, which are promptly mailed to the Museum, and through the reports of our appointed book agents in London and Berlin, many old and rare volumes have been gathered. In the year under review but five books of voyages were picked up, and these are: Dampier's Voyages, Burney's History of Discoveries in the Pacific, Fleurieu's Discoveries of the French, Flinder's Voyage

in the Investigator, and Bligh's Mutiny of the Bounty. These volumes all but complete the long series in the Library referring to the subject.

Considerable active study and investigation by the departments of Ornithology and Ichthyology called for a fuller representation of books pertaining to such studies, and complete sets of the Ibis and Auk being offered for sale in London they were purchased, as well as a set of the Journal für Ornithologie in Berlin. To aid the determination of the fishes Bleeker's Atlas Ichthyologique in nine folio volumes was purchased; and from the United States Fish Commission and Dr. O. P. Jenkins, the Fishes of Puerto Rico by Evermann and Marsh, with several other pamphlets published by the Commission have been gladly received.

Few works relating to Ethnology and Anthropology were added during the year as compared with 1900, when files of publications from several European societies were purchased. The Società Italiana di Antropologia e Etnologia was among those whose early publications were bought, and has completed its set in the Museum by adding the four volumes of most recent date. Several institutions with whom exchange of publications has been conducted have very kindly contributed many of their early volumes not due the Museum by right of exchange, and a grateful acknowledgment is tendered the Cambridge Museum of Comparative Zoölogy, the Academy of Natural Sciences of Philadelphia, Field Columbian Museum, Royal Society of Victoria (Australia), and the Real Academia de Ciencias y Artes de Barcelona for these appreciated gifts.

Books have also been received from Henry C. Carter, Esq., of New York, who has presented many books long out of print concerning this region; the Hon. Charles R. Bishop, the U. S. Treasury Department, U. S. Department of Agriculture, the U. S. Geological Survey, and other individuals and institutions mentioned in the accompanying list of acquisitions. To the list of exchanges many new names were added, and it is pleasing to remark the increase of offers from other scientific bodies to exchange publications. The exchange list is appended.

The condition of the books is good although continually threatened by inroads of insects which breed uninterruptedly in our even climate, and considerable difficulty is experienced in

fighting these pests owing to the crowded state of the shelves and the want of suitable and permanent cases. While the library remains as it is, stored in the old cases in the basements, these disadvantages will only be overcome by great expenditure of time and labor. The arrangement and classification of the Library also suffers through the same over-crowding, and it is to be hoped that the new cases to be placed in Hawaiian Hall will soon arrive and be erected. At present, to provide room it is found necessary to box those books for which there is less call, and store them in other parts of the Museum.

The Library was established for assisting the Museum staff in researches, but free use has also been offered to and taken advantage of by scientific gentlemen in these islands who have come to the Museum for study. Respectfully,

JOHN F. G. STOKES,
Acting Librarian.

ATTENDANCE OF VISITORS.

If it were possible to make a table of the apparent intelligence of the visitors the results would be most interesting. I do not think any visitors study the collections more carefully than the Chinese. The Hawaiian attendance is largely of school children, and the Portuguese and Japanese is mostly from the laboring classes. Some visitors not only stay all day but come repeatedly, while the average tourist perhaps spends half an hour or less in a glance at the rooms, for the collections seem to them to be merely furniture to these. It will be seen that the Museum was open to visitors 150 days, or nearly half the time, omitting Sundays. No damage was done by any visitor, and all were orderly and observant of rules as in any community.

The attendance of school children perhaps needs some regulation that they may get the greatest possible good from their visits to the Museum and cause the least possible annoyance to the other visitors. Not more than twenty in a class, and not more than two classes at once should be allowed; and the teachers who come with them should be competent to give some instruction to the pupils.

At present, I am sorry to say, a visit to the Museum is much in the nature of a half-holiday to most of the children, and I have seen little instruction given by the teachers to the pupils: there are some marked exceptions.

TABLE OF ATTENDANCE.

1901.	Whites.	Hawaiians.	Portuguese.	Chinese.	Japanese.	Others.	Open on		Visitors on other days.	Average Attendance.		Total Visitors.
							Exhibition.	Other days.		Exhibition.	Other days.	
January	334	109	29	73	70	2	9	3	10	67.5	3.3	617
February	460	78	34	126	42	....	8	....	51	86	25.5	740
March	597	170	16	111	88	4	10	....	17	97	8.5	986
April	349	58	21	74	95	....	8	....	45	69	6.5	597
May	349	159	28	75	42	3	9	3	22	70.5	7.3	656
June	369	175	25	98	67	1	9	3	49	76	16	735
July	329	60	26	114	42	....	8	3	64	63	21	571
August	684	53	14	123	68	....	10	7	152	79	22	942
September	256	114	21	91	44	1	7	5	53	68	10	527
October	244	153	34	104	53	....	8	5	15	70.4	3	588
November	320	130	47	94	109	8	10	3	24	68.4	8	708
December	321	153	12	89	81	....	8	3	32	78	11	656
Totals	4612	1412	307	1172	801	19	104	46	534	74.4	11.8	8323

List of Accessions.

DEPARTMENT OF ETHNOLOGY AND ANTHROPOLOGY.

Given.

- 5621 Palm-leaf basket. Guam. Given by Lieut.-Commander Stoney.
- 5872-7 Bas-reliefs of Maori heads, done by Mr. Allen Hutchinson. Given by Col. W. F. Allen:—
- 5872 Old man, Te Arawa tribe.
- 5873 Old woman, Te Arawa tribe.
- 5874 Man, Waikato tribe.
- 5875 Woman, Taupo tribe.
- 5876 Boy, Taupo tribe.
- 5877 Boy. (?)
- 5880 Collection of implements from the Swiss Lake Dwellers, given by Paul Hofer, Esq., and comprising: 15 stone axes, 9 sockets of deer horn for axes, 8 stone knives, 2 grindstones,

- 1 stone hammer, 7 sinkers, 15 lance heads, 11 arrow heads, 7 chisels (4 of bone, 2 of stone and 1 made from a tooth), 13 bone awls, 2 bone needles, quantity of cores and flakes of flint, and fragments of horn, bone and boar tusk.
- 7534 Stone lamp. Hawaiian Ids. Given by Rev. Silas Perry.
- 7585-7 Flax bags. New Zealand. Given by Mrs. W. F. Allen.
- 7588 Palm-leaf basket. New Zealand. Given by Mrs. W. F. Allen.
- 7589 Pair of balls for playing *poi*. New Zealand. Given by Mrs. W. F. Allen.
- 7590 Lime box. Solomon Ids. Given by Mrs. W. F. Allen.
- 7974 Stone chisel. Kauai, H. I. Given by Paul Hofer, Esq.
- 7995 Stone sinker. Kauai, H. I. Given by Paul Hofer, Esq.

Collected.

- 10,023-4 Grindstones for adzes. Oahu, H. I.
- 10,025-8 Polishing stones. Oahu, H. I.
- 10,029 Stone sinker. Oahu, H. I.
- 10,030 Stone hammer. Oahu, H. I.
- 10,031-2 Poi pounders. Oahu, H. I.

Purchased.

- 2792-4 Carved human skulls. New Guinea.
- 2795 Bambu drill for making shell rings. New Guinea.
- 2796 Piece of shell partly cut. New Guinea.
- 2797 Block of wood for holding shell. New Guinea.
- 2799 Paddle. Trobriand Ids.
- 3070-1 Koko puupuu. Hawaiian Ids.
- 3568-9 Stone lamps. Hawaiian Ids.
- 3848 Stone lamp. Hawaiian Ids.
- 6731-2 Dancing masks. New Ireland.
- 6760 Spear. New Guinea.
- 6761 Spear. South Australia.
- 6762-3 Nosepins. Solomon Ids.
- 6816 Wooden idol. Oahu, H. I.
- 7646 Stone dish. Hawaiian Ids.
- 7647 Stone lamp. Hawaiian Ids.
- 7905 Club. Marquesas Ids.
- 10,035-8 Stone adzes. Hawaii, H. I.
- 10,039 Stone pestle. Hawaii, H. I.

- 10,040 Stone lamp. Hawaii, H. I.
 10,041 Iron adze. Hawaii, H. I.
 10,057-61 Ornamented gourd water bottles. Niihau, H. I.
 10,062 Large mat made from "Makaloa" (*Cyperus lævigatus*).
 Niihau, H. I.
 10,063-72 Small samples of mats made from "Makaloa." Niihau,
 H. I.
 10,073-4 Stone poi pounder. Hawaii, H. I.
 10,075-6 Iron fish barbs. Hawaii, H. I.
 10,077-9 Kapa beaters. Hawaii, H. I.
 10,080-1 Wooden dishes. Hawaii, H. I.
 10,082 Old pistol. Kealakekua bay, Hawaii, H. I.
 10,083 Poi bowl. Hawaii, H. I.

DEPARTMENT OF ORNITHOLOGY AND MAMMALOLOGY.

Mammals Purchased.

- 10,096 *Mesoplodon grayi* Haast. Chatham Ids. (Skeleton.)
 10,202 *Physeter macrocephalus* Linn. Pacific Ocean. (Skeleton.)

Birdskins Purchased.

- 10,097 *Glaucopis wilsoni* Bonap. ♂ Wellington, N. Z.
 10,098 " *cinerea* Gmel. ♂ Nelson, N. Z.
 10,099 *Creadion carunculatus* (Gmel.). ♂ Otago Sound, N. Z.
 10,100 " " " ♂ & ♀ " "
 10,101 *Turnagra crassirostris* (Gmel.). ♂ Nelson, N. Z.
 10,102 *Gerygone flaviventris* Gray. ♂ Nelson, N. Z.
 10,103 *Chitonix albicapilla* Buller. ♀ Wellington, N. Z.
 10,104 *Sphenæacus punctatus* (Quoy & Gaim.). ♀ Wellington,
 N. Z.
 10,105 *Acanthidositta chloris* (Sparrm.). ♂ Otago, N. Z.
 10,106 *Chrysococcyx lucidus* (Gmel.). ♀ New Zealand.
 10,107 *Platycercus novæ-zealandiæ* (Sparrm.). ♀ Chatham Ids.
 10,108 *Stringops habroptilus* Gray. ♂ Nelson, N. Z.
 10,109 *Hieracidea ferox* Peale. ♂ Wellington, N. Z.
 10,110 *Thinornis novæ-zealandiæ* (Gmel.). ♂ Chatham Ids.
 10,111 *Larus scopulinus* Forst. New Zealand.
 10,112 *Botaurus pœciloptilus* (Wagl.). ♂ Wellington, N. Z.
 10,113-4 *Phalacrocorax featherstoni* Buller. ♂ & ♀ Chatham Ids.

- 10,115-6 *Apteryx australis* Shaw & Nodd. ♂ & ♀ Otago, N. Z.
 10,117-8 " *haastii* Potts. ♂ & ♀ Nelson, N. Z.
 10,119-20 " *maxima* Hutt. ♂ & ♀ Stewarts Id.
 10,121 *Diomedea culminata* Gould. New Zealand.
 10,122 " *fuliginosa* Gmel. ♀ Campbell's Id.
 10,123 " *regia* Buller. ♀ New Zealand.
 10,124-5 *Thinornis novæ-zealandiæ* (Gmel.). ♀ Chatham Ids.
 10,206 *Sula cyanops* Sund. Oahu, H. I.

Birdskins by Exchange.

- 10,090 *Æstrelata phæopygia* Salv. Galapagos Ids.
 10,264 *Buteo solitarius* Peale. Olaa, Hawaii.

Birdskins Given.

- 9892 *Larus delawarensis* Ord. Molokai, H. I. Given by Mr. G. P. Wilder.
 9893 *Anous stolidus* (Linn.). Molokai, H. I. Given by Mr. G. P. Wilder.
 10,062-3 *Phaëthon lepturus* L. & D. ♂ & ♀ Hawaii, H. I. Given by Prof. H. W. Henshaw.

Birdskins Collected.

Collected by Wm. Alanson Bryan, Alvin Seale and Allen M. Walcott.
 On Waianae Mts., Oahu, H. I.

- 9644-93 *Oreomyza maculata* (Cab.). 26 ♂, 24 ♀.
 9694-9745 *Chlorodrepanis chloris* (Cab.). 24 ♂, 28 ♀.
 9746-87 *Chasiempis gayi* Wilson. 17 ♂, 25 ♀.
 9788-93 *Vestiaria coccinea* (Forster). 3 ♂, 2 ♀, 1?
 9794-9826 *Himatione sanguinea* (Gmel.). 19 ♂, 13 ♀, 1?
 9827-32 *Acridotheres tristis* (Linn.). 4 ♂, 1 ♀, 1 juv.
 9833-4 *Charadrius dominicus fulvus* (Gmel.). 2 ♀.
 9835 *Asio accipitrinus* (Pall.). ♂
 9836-51 *Carpodacus mexicanus obscurus* McCall. 1 ♂, 7 ♀.
 9894 *Phasianus versicolor* Vieill.
 9885 and 91 *Himatione sanguinea* (Gmel.). ♂ & ♀
 9886-7 *Chlorodrepanis chloris* (Cab.). ♂ & ♀
 9888-9 *Oreomyza maculata* (Cab.). ♂ & ♀

On Hawaii, H. I.

- 9922 *Phaeornis obscura* (Gmel.). ♂
 9923-4 *Chasiempis sandvicensis* (Gmel.). ♂ & ♀

- 9925 *Phaeornis obscura* (Gmel.). ♂
 9926-47 *Chasiempis sandvicensis* (Gmel.). 7 ♂, 15 ♀.
 9948-62 *Himatione sanguinea* (Gmel.). 7 ♂, 8 ♀.
 9963-79 *Vestiaria coccinea* (Forster). 10 ♂, 7 ♀.
 9980-10,019 *Chlorodrepanis virens* (Gmel.). 24 ♂, 15 ♀, 1?
 10,020-33 *Oreomyza mana* (Wilson). 7 ♂, 4 ♀, 3?
 10,034-9 *Heterorhynchus wilsoni* Roths. 2 ♂, 2 ♀, 2?
 10,040 *Chasiempis sandvicensis* (Gmel.). ♂
 10,041-4 *Loxops coccinea* (Gmel.). 3 ♂, 1 ♀.
 10,045-53 *Phaeornis obscura* (Gmel.). 6 ♂, 3?
 10,054-7 *Viridonia sagittirostris* Roths. 3 ♂, 1 ♀.
 10,058-9 *Carpodacus mexicanus obscurus* McCall. ♂
 10,060-1 *Psittirostra psittacea* Gmel.
 10,065-6 *Buteo solitarius* Peale. 1 ♀, 1?
 10,068-9 *Chlorodrepanis virens* (Cab.). ♀
 10,070-1 *Chasiempis sandvicensis* (Gmel.). ♂ &?
 10,072-7 *Corvus hawaiiensis* Peale. 2 ♂, 2 ♀, 2?
 10,078 *Chasiempis sandvicensis* (Gmel.). ♀
 10,079-80 *Nesochen sandvicensis* (Vig.). ♂ & ♀

On Oahu. H. I.

- 10,085-6 *Nycticorax nycticorax naevius* (Bodd.). ♂ and juv.
 10,087 *Heteractitis incanus* (Gmel.).
 10,091-5 *Phaethon lepturus* L. & D. 1 ♂, 3 ♀ and juv.
 10,203 *Nycticorax nycticorax naevius* (Bodd.). ♀
 10,204 *Spatula clypeata* (Linn.). ♀
 10,205 *Charadrius dominicus fulvus* (Gmel.). ♂
 10,088 *Acridotheres tristis* Linn.; 15 specimens for skin group.
 Honolulu.
 10,089 *Acridotheres tristis* Linn. ♂ Honolulu.

Bird Skeletons.

Collected by W. A. Bryan: On Waianae Mts., Oahu, H. I.

- 9852 *Carpodacus mexicanus obscurus* McCall. ♂
 9853-4 *Oreomyza maculata* (Cab.). ♂ & ♀
 9855 *Chlorodrepanis chloris* (Cab.).
 9856 *Chasiempis gayi* Wilson. ♂
 9857 *Vestiaria coccinea* (Forster). ♂

Birds in Alcohol.

Collected by W. A. Bryan: On Waianae Mts., Oahu, H. I.

- 9878 *Chasiempis gayi* Wilson.
 9879-80 *Oreomyza maculata* (Cab.). ♂ & ♀

- 9881 *Vestiaria coccinea* (Forster).
- 9882 *Acridotheres tristis* (Linn.).
- 9883 *Carpodacus mexicanus obscurus* McCall.
- 9884 *Munia nisoria* (Temm.).

Nests and Eggs.

Collected by W. A. Bryan and A. Seale: On Waianae Mts., Oahu, H. I.

- 9858-63 *Carpodacus mexicanus obscurus* McCall.
- 9864 *Turtur chinensis* (Scop.).
- 9865-6 *Oreomyza maculata* (Cab.).
- 9867-73 *Chlorodrepanis chloris* (Cab.).
- 9874-7 *Chasiempis gayi* Wilson.

DEPARTMENT OF ICHTHYOLOGY.

Collected by Alvin Seale, John W. Thompson and Allen M. Walcott.
In Hilo, Hawaii, H. I.

- 275 *Cheilio inermis* (Forsk.).
- 276 *Synodus variegatus* Quoy & Gaim.
- 277 *Polydactylus sexfilis* (Cuv. & Val.).
- 278 *Parapercis schauinslandi*.
- 279-80 *Teuthis annularis*.
- 281 *Gomphosus tricolor* Quoy & Gaim.
- 282 *Upeneus vilifex* Smith & Swain.
- 283 *Julis* (? *trilobata* Lacép.).
- 284 *Malacanthus hoedtii* Bleek.
- 285 *Abudefduf saxatilis* (Linn.).
- 286 *Cheilinus zonurus* Jenk.
- 287 *Iniistius tetrazonus* Bleek.
- 288 *Cheilinus* sp.
- 289 *Pomacentrus emarginatus* Cuv. & Val.
- 290 *Albula vulpes* (Linn.).
- 291 *Upeneus porphyreus* Linn.
- 292 *Upeneoides vittatus* (Forsk.).
- 293 *Hemirhamphus pacificus* Cuvier.
- 294 *Fistularia depressa* Günth.
- 295 *Iniistius tetrazonus* Bleek.
- 296-7 *Thalassoma verticale*.

In Honolulu, Oahu, H. I.

- 298 *Gymnothorax leucosticus*.
- 299 *Novaculichthys vanicorensis* Quoy & Gaim.

- 300-1 *Thalassoma duperryi* Quoy & Gaim.
- 302-3 *Gomphosus tricolor* Quoy & Gaim.
- 304 " *pectoralis* Quoy & Gaim.
- 305-6 *Iniistius pavo* Quoy & Gaim.
- 307 *Hemipteronotus umbrilatus* Jenk.
- 308 *Thalassoma quadricolor* (Less.).
- 309-13 *Pseudocheilinus octotænia* Jenk.
- 314 *Thalassoma* sp.
- 315 *Coris schauinslandi*.
- 316-23 *Chætodon setifer* Ren.
- 324 " *fremblii* Benn.
- 325-6 " *quadrимaculatus* Gray.
- 327-8 " *vittatus* Ren.
- 329 " *unimaculatus* Bloch.
- 330-3 " *lunula* (Lacép.).
- 334-42 " *mantelliger* Jenk.
- 343-6 *Zanclus canescens* Günth.
- 347-8 *Calotomus sandwichensis* Cuv. & Val.
- 349 *Paracirrhites cinctus* (Benn.).
- 350 *Upeneus trifasciatus* Lacép.
- 351 *Abudefduf saxatilis* (Linn.).
- 352-4 *Dascyllus trimaculatus* (Rüpp.).
- 355-8 *Synodus varius* Lacép.
- 359-60 *Caranx speciosus* (Forsk.).
- 361-4 *Teuthis triostegus* (Linn.).
- 365-9 *Cheilio inermis* (Forsk.).
- 370 *Parapercis schauinslandi*.
- 371-2 *Polydactylus sexfilis* (Cuv. & Val.)
- 373-83 *Parachirrites arcatus* (Parkins).
- 384-9 *Caranx* sp.
- 390 *Cheilinus bimaculatus* Cuv. & Val.
- 391 *Apogon* sp.
- 392 *Chætodon ornatissimus* (Soland.).
- 393-5 *Aprion virescens* Cuv. & Val.
- 396 *Teuthis olivaceus* (Bl.).
- 397 *Ctenochaetus strigosus* Benn.
- 398-400 *Teuthis* sp.
- 401 *Caranx affinis* Rüpp.
- 402 *Trachurops crumenophthalmus* (Bloch.).
- 403-4 *Caranx* sp.

- 405 *Scomberoides tolooo* Russel.
- 406 *Amanses sandwichensis* Bleek.
- 407-9 *Congrellus* sp.
- 410-12 *Eleotris fusca* (Schneid.).
- 413-14 *Holocentrus* sp.
- 415-16 " sp.
- 417 " *fuscostriatus* Seale.
- 418-21 *Parexocætus mesogaster* (Bloch).
- 422 *Malacanthus hoedtii* Bleek.
- 423-5 *Platophrys pantherinus* (Rüpp.).
- 426 *Apogon menesenus*.
- 427-30 *Paracirrhites forsteri* (Schneid.).
- 431-3 *Trachinocephalus limbatus*.
- 434 *Carassius auratus* (Cuv. & Val.).
- 435-6 *Myripristis pralinus* Cuv. & Val.
- 437 " (? *pralinus* Cuv. & Val.).
- 438-41 *Cirrhites marmoratus* Lacép.
- 442 *Paracirrhites arcatus* (Parkins).
- 443-44 *Carangus ciliaris* Bloch.
- 445 *Gobius genivittatus* Cuv. & Val.
- 446-48 *Cossyphus bilunulatus* (Lacép.).
- 449-52 *Gobius* sp.
- 453 *Abudefduf saxatilis* (Linn.).
- 454 *Balistes buniva* (Will.).
- 455-6 " *capriscus* Gmel.
- 457 *Amiurus nebulosus* (Le Sueur).
- 458 *Ophicephalus* sp.
- 459 *Anampses cuvieri* Quoy & Gaim.
- 460 *Cymolutes leclussii* (Quoy & Gaim.).
- 461 *Novaculichthys vanicorensis* Quoy & Gaim.
- 462-4 *Iniistius niger*.
- 465 *Hemicoris iridescens* Jenk.
- 466 " *keleipionis* Jenk.
- 467 *Acanthurus guttatus* (Forst.).
- 468-9 *Cheilinus zonurus* Jenk.
- 470-1 *Thalassoma pyrrhovinctum* Jenk.
- 472 *Gomphosus pectoralis* Quoy & Gaim.
- 473 " *tricolor* Quoy & Gaim.

- 474-6 *Thalassoma verticale*.
- 477-9 " *sp.*
- 480 *Cossyphus sp.*
- 481 *Epinephelus quernus* Seale, Type.
- 482 *Echidna nebulosa* (Ahl).
- 483 *Cossyphus bilunulatus* (Lacép.).
- 484 *Priacanthus cruentatus* Lacép.
- 485 *Cossyphus* (*Diastodon*) *modestus*.
- 486 *Scomberoides toloo* Russel.
- 487 *Cephalacanthus sp.*
- 488-9 *Balistes buniva* (Will.).
- 490 " *mitis* Benn.
- 491-5 " *vidua* Ren.
- 496-7 " *capricus* Gmel.
- 498-9 " *bursa* Valent.
- 500 *Priacanthus cruentatus* Lacép.
- 501-3 *Upeneus velifer* Smith & Swain.
- 504-5 " *cherserydros* (Lacép.).
- 506-8 " *pleurostigma* Benn.
- 509 " *cyclostoma* (Lacép.).
- 510 " *punctatus* Cuv. & Val.
- 511-12 " *multifasciatus* Quoy & Gaim.
- 513 " *sp.*
- 514-16 *Carangus sp.*
- 517-18 *Myripristis pralinus* Cuv. & Val.
- 519-21 *Holotrachys lima* (Cuv. & Val.).
- 522-3 *Holocentrus microstoma* Günth.
- 524 " *sammara* (Forsk.).
- 525-7 " *tiere* Cuv. & Val.
- 528 *Iniistius pavo* (Cuv. & Val.).
- 529-30 *Xyrichthys sp.*
- 531 *Coris gaimardi* Valent.
- 532 " *pulcherrima* Valent.
- 533 " *flavovittata* Benn.
- 534 *Thalassoma sp.*
- 535 *Tylosurus annulatus* (Cuv. & Val.).
- 536-8 *Albula vulpes* (Linn.).
- 539 *Trachurops crumenophthalmus* (Bloch).
- 540 *Scorpænapus gibbosa* (Schneid.).
- 541-4 *Aulostoma chinense* (Linn.).

- 545 *Sphyræna vulgaris* Cuv. & Val.
- 546 *Euleptorhamphus macrorhynchus* (Cuv. & Val.).
- 547 *Hemirhamphus pacificus* Cuvier.
- 548 *Chromis velox*.
- 549 *Aprion virescens* Cuv. & Val.
- 550-2 *Fistularia depressa* Günth.
- 553 *Tylosurus annulatus* (Cuv. & Val.).
- 554 " *sp.*
- 555-6 *Euleptorhamphus macrorhynchus* Cuv. & Val.
- 557-9 *Chaetodon lunula* (Lacép.).
- 560-3 " *mentelliger* Jenk.
- 564 " *unimaculatus* Bloch.
- 565 " *ornatissimus* (Soland.).
- 566-8 " *setifer* Ren.
- 569-71 *Balistapus rectangulus* (Bloch).
- 572 *Balistes vidua* Ren.
- 573 " *buniva* (Will.).
- 574 *Coris gaimardi* Valent.
- 575-7 " *pulcherrima* Valent.
- 578 *Hemicoris keleipionis* Jenk.
- 579 *Paracirrhites forsteri* (Schneid.).
- 580 " *cinctus* (Benn.).
- 581 *Pomacentrus* *sp.*
- 582 *Cheilinus bimaculatus* Cuv. & Val.
- 583-4 *Zanclus canescens* Günth.
- 585-7 *Abudefduf saxatilis* (Linn.).
- 588 " [? *saxatilis* (Linn.)].
- 589 *Scolopsis* *sp.*
- 590 *Kuhlia malo* (Cuv. & Val.).
- 591 *Echidna nebulosa* (Ahl).
- 592 *Cephalacanthus* *sp.*
- 593 *Eleotris fusca* (Schneid.).
- 594 *Balistes capriscus* Gmel.
- 595-8 *Thalassoma duperryi* Quoy & Gaim.
- 599 *Tetrodon hispidus* Linn.
- 600 *Hemipteronotus umbrilatus* Jenk.
- 601-2 *Holocentrus rubrum* (Forsk.).
- 603-4 " *sp.*
- 605 *Gomphosus tricolor* Quoy & Gaim.
- 606 *Coris pulcherrima* Valent.

- 607 *Upeneus velifer* Smith & Swain.
- 608-10 *Thalassoma quadricolor* (Less.).
- 611 *Novaculichthys tattoo* Seale, Type.
- 612 *Cheilio inermis* (Forsk.).
- 613 *Thalassoma* sp.
- 614 *Scolopsis* sp.
- 615 *Synodus varius* Lacép.
- 616 *Tylosurus* sp. juv.
- 617 *Thalassoma quadricolor* (Less.).
- 618-19 " sp.
- 620 *Aetobatus narinari* (Euphrasen).
- 621 *Balistapus rectangulus* (Bloch).
- 622 *Teuthis nigrosus*.
- 623 *Monoceros unicornis* (Forsk.).
- 624 *Thalassoma* sp.
- 625 *Serranus brighami* Seale, Type.
- 626 *Holocentrus* (? *binotatum* Quoy & Gaim.).
- 627 *Balistes buniva* (Will.).
- 628 *Chætodon lunula* (Lacép.).
- 629-31 *Gomphosus tricolor* Quoy & Gaim.
- 632 *Dascyllus trimaculatus* (Rüpp.).
- 633 *Pomacentrus emarginatus* Cuv. & Val.
- 634 *Balistopus rectangulus* (Bloch).
- 635 *Synodus varius* Lacép.
- 636-8 *Gomphosus pectoralis* Quoy & Gaim.
- 639 *Eleotris fusca* (Schneid.).
- 640 *Heniochus macrolepidotus* Ren.
- 641-2 *Iniistius tetrazonus*.
- 643 *Antennarius commersoni* (Lacép.).
- 644 *Coris* sp.
- 645 *Holocentrus microstoma* Günth.
- 646 *Holotrachys lima* (Cuv. & Val.).
- 647 *Calotomus sandwichensis* Cuv. & Val.
- 648 *Teuthis triostegus* (Linn.).
- 649 *Caranx speciosus* (Forsk.).
- 650 *Scorpæna parvipennis*.
- 651 *Cheilinus bimaculatus* Cuv. & Val.
- 652 *Platophrys pavo* (Bleek.).
- 653 *Cheilio inermis* (Forsk.).

- 654 *Stethojulis albovittata* Lacép.
- 655 " *axillaris* (Quoy & Gaim.).
- 656 *Belone platura* Rüpp.
- 657 *Aulostoma chinense* (Linn.).
- 658 *Caranx ferdau* (Forsk.).
- 659 *Cheilio inermis* (Forsk.).
- 660 *Monocanthus* sp.
- 661 *Teuthis nigrosus*.
- 662 *Scorpæna cirrhosa* (Thunb.).
- 663 *Aetobatus narinari* (Euphrasen).
- 664 *Balistes fuscolineatus* Seale, Type.
- 665 *Thalassoma quadricolor* (Less.).
- 666 *Scorpænopsis cacopsis* Jenk.
- 667 *Monocanthus albopunctatus* Seale, Type.
- 668 *Scarus gilberti* Jenk.
- 669 *Echidna* sp.
- 670 " sp.
- 671 *Ophichthys colubrinus* (Bodd.).
- 672 *Scorpænopsis cacopsis* Jenk.
- 673-4 *Teuthis achilles*.
- 675 *Chætodon unimaculatus* Bloch.
- 676 *Brotula marginalis* Jenk.
- 677 *Cephalacanthus* sp.
- 678 *Ovoides latifrons* Jenk.
- 679 *Chætodon bleekeri*.
- 680 *Teuthis* sp.
- 681 *Thalassoma berendti* Seale, Type.
- 682 *Zanclus canescens* Günth.
- 683 *Tylosurus* sp.
- 684 *Remora albescens* (Temm.).

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